



Contains NO CBI

TOXICOLOGY DEPARTMENT

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INTERNATIONAL TELEX NUMBER 4999378-ANSWERBACK APC RTP

22 OCT 1992 AM 8:04

October 5, 1992

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

8EHA-92-12607

88920010788

INIT

Document Processing Center (TS-790)  
Office of Toxic Substances  
US Environmental Protection Agency  
401 M Street, SW  
Washington, DC 20460

Attn: Section 8(e) Coordinator (CAP Agreement)

RE: Report Submitted Pursuant to the TSCA Section 8(e) Compliance Audit Program

CAP ID No.: 8ECAP - 0004

Dear Sir/Madam:

On behalf of Rhône-Poulenc Inc. (RPI, CN 5266, Princeton, NJ 08543-5266) and its subsidiary Rhône-Poulenc Ag Company, the attached study report is being submitted to the Environmental Protection Agency (EPA) pursuant to the Toxic Substances Control Act (TSCA) Section 8(e) Compliance Audit Program and the Agreement for a TSCA Section 8(e) Compliance Audit Program (CAP Agreement) executed by RPI and EPA.

The enclosed study report provides information on MC 1445. The CAS number and name for this chemical are 25900-68-9 and phenyl-O-(dimethylcarbamoyl)oxime glyoxylonitrile. This chemical was synthesized for pesticide research and development approximately 15 to 20 years ago. To our knowledge, a pesticide application on this chemical has never been submitted to EPA under the Federal Insecticide, Fungicide, and Rodenticide Act.

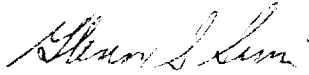
No claims of confidentiality are made for this submission. The title of the enclosed report is "Acute Oral Toxicity Study in Rats with Mobil Chemical Company's Compound Identified as A-740 (MC 1445)". The following is a summary of the adverse effects observed in this study.

This study is being submitted under Section 8(e) because of observed clinical signs. Trembling, twitching, and hypersensitivity were noted within 15 minutes after dosing. These signs were observed in animals surviving to study termination as well as those dying during the study. Most deaths occurred within 2 hours after dosing. The oral LD50 was determined to be 31 mg/kg.

No previous TSCA Section 8(e) notices have been submitted on this chemical. In total, RPI is submitting three copies of the enclosed report and this cover letter: an original and two copies.

Further questions regarding this submission may be directed to the undersigned at 919-549-2222.

Sincerely,

A handwritten signature in cursive script, appearing to read "Glenn S. Simon".

Glenn S. Simon, PhD, DABT  
Director of Toxicology



PRINCETON PIKE, P. O. BOX 57

PRINCETON, N. J. 08540

TEL.: (609) 924-9658

Project #20-197

Acute Oral Toxicity Study in Rats  
with Mobil Chemical Company's Compound Identified as A-740 (mc 1445)

Conducted for

Mobil Chemical Company  
Metuchen, New Jersey

Submitted by

AME Associates  
Princeton, New Jersey

A. M. E. ASSOCIATES P.O. BOX 57 PRINCETON, N. J. 08540

February 22, 1967

PROJECT #20-197

SPONSOR: MOBIL CHEMICAL COMPANY

SUBJECT: Acute Oral Toxicity Study in Rats with Mobil Chemical Company's Compound Identified as A-740.

OBJECTIVE

To study the acute oral toxicity in rats of Mobil Chemical Company compound A-740 when administered by means of a stomach catheter.

MATERIAL

Compound A-740 supplied by Mobil Chemical Company for use in this study was prepared in two dilutions; namely, a 4% w/v suspension and a 1% suspension in corn oil.

PROCEDURE

An approximation of the LD<sub>50</sub> was attained by administering the chemical compound to a number of rats on each of several levels. Following this a group of twenty young adult, male albino rats of the Sprague-Dawley Strain weighing approximately 200-250 grams was selected for use in this study. The animals were divided into four subgroups of five animals each and fasted for twenty-four hours prior to dosing.

-2-

The experimental material was placed in a syringe and introduced through the esophagus into the stomach with a stainless steel catheter.

Five rats were dosed at 100 mg/kg level and five rats were dosed at 50 mg/kg level with a 4% suspension in corn oil (i.e., 400 mg in 10 ml). The other two groups received 25 mg/kg and 12.5 mg/kg respectively of a 1% suspension in corn oil (i.e., 100 mg in 10 ml).

Animals on the same dosage level were then placed in a common cage with free access to food and water. The cages employed had wire mesh floors elevated above the droppings and were kept in temperature controlled rooms at  $72^{\circ} \text{F} \pm 2^{\circ} \text{F}$ . Light was furnished for eight out of every twenty-four hour period.

The animals were observed for a fourteen day period and deaths were recorded.

The  $\text{LD}_{50}$  was calculated using the Thompson Moving Average Method (Biometrics, September, 1952, Vol. 8, No. 3).

### RESULTS

Dosage mg/kg	No. of Animals	<u>Number and Days of Death</u>														<u>Total</u>	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	S*	D**
12.5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
25	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3
50	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	2	3
100	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

\*Survivors

\*\*Deaths

-3-

OBSERVATIONS

Trembling, twitching and hypersensitivity were noted within five to fifteen minutes in most animals. At 12.5 mg/kg these signs were apparently delayed by five to ten minutes. Most deaths occurred within one and one-half hours following dosing. Handling appeared to rapidly precipitate death in rats, which were showing CNS sings.

CONCLUSIONS

The oral LD<sub>50</sub> of Mobil Chemical Company's A-740 is 30.8 mg/kg with 95% confidence limits of 19.1 mg/kg to 49.8 mg/kg.

SUBMITTED BY Harry C. Fegley VMD  
AME ASSOCIATES

Harry C. Fegley, V.M.D.

CAP ID No. A-AG-MAM-0652  
Reviewed for Sec. 8 (e)  
Compliance Program  
On 6/15/92 By MAM

## Triage of 8(e) Submissions

Date sent to triage: \_\_\_\_\_

NON-CAP

CAP

Submission number: 12604A

TSCA Inventory: Y N D

Study type (circle appropriate):

Group 1 - Dick Clements (1 copy total)

ECO

AQUATO

Group 2 - Ernie Falke (1 copy total)

ATOX

SBTOX

SEN

w/NEUR

Group 3 - Elizabeth Margosches (1 copy each)

STOX

CTOX

EPI

RTOX

GTOX

STOX/ONCO

CTOX/ONCO

IMMUNO

CYTO

NEUR

Other (FATE, EXPO, MET, etc.): \_\_\_\_\_

Notes:

THIS IS THE ORIGINAL 8(e) SUBMISSION; PLEASE REFILE AFTER TRIAGE DATABASE ENTRY

### For Contractor Use Only

entire document: 0 1 2 pages 1-2 pages 1-2

Notes:

Contractor reviewer: JEA

Date: 5/22/95



CHEMSTRATAGE TRACKING DBASE ENTRY FORM

CHEMSTRAT DATA: Submitter # 1092-12604 SEQ. A

TYPE: INT. SUPP FLWP

SUBMITTER NAME: Rhone-Poulenc

loc.

SUB. DATE: 10/05/92 sub DATE: 10/13/92 CRAD DATE: 04/13/95

CHEMICAL NAME: Nitrile, phenyl-O-(dimethyl carbamoyl)

Oxime glyoxalo-

MC 1445

CAGE

25900-68-9

25900-68-9

VOLUNTARY ACTIONS

- 0001 NO ACTION REQUESTED
- 0002 STUDIES PLANNED (HUMAN)
- 0003 STUDIES PLANNED (ANIMAL)
- 0004 LABELING ACTION (HUMAN)
- 0005 LABELING ACTION (ANIMAL)
- 0006 PROPOSED ACTION (HUMAN)
- 0007 PROPOSED ACTION (ANIMAL)
- 0008 APP. USE DISCONTINUED
- 0009 PRODUCTION DISCONTINUED
- 0010 CONFIDENTIAL

INFORMATION TYPE	P.F.C.	INFORMATION TYPE	P.F.C.
0201 ONCO (HUMAN)	01 02 04	0206 SPECIES	01 02 04
0202 ONCO (ANIMAL)	01 02 04	0207 HUMAN EXPOS (PROD CONTAM)	01 02 04
0203 CELL TRANS (IN VITRO)	01 02 04	0208 HUMAN EXPOS (ACCIDENTAL)	01 02 04
0204 MUTA (IN VITRO)	01 02 04	0209 HUMAN EXPOS (MONITORING)	01 02 04
0205 MUTA (IN VIVO)	01 02 04	0210 ECOLOGICAL TOX	01 02 04
0206 REPROTERATO (HUMAN)	01 02 04	0211 ENV. OCCURRENCE	01 02 04
0207 REPROTERATO (ANIMAL)	01 02 04	0212 HUMAN INC OF ENV CONTAM	01 02 04
0208 NEURO (HUMAN)	01 02 04	0213 RESPONSE REPORT DELAY	01 02 04
0209 NEURO (ANIMAL)	01 02 04	0214 PROPOSED ACTION ID	01 02 04
0210 ACUTE TOX (HUMAN)	01 02 04	0215 REPORTING RATIONALE	01 02 04
0211 CHR. TOX (HUMAN)	01 02 04	0216 CONFIDENTIAL	01 02 04
0212 ACUTE TOX (ANIMAL)	01 02 04	0217 ALLERG (HUMAN)	01 02 04
0213 SUB ACUTE TOX (ANIMAL)	01 02 04	0218 ALLERG (ANIMAL)	01 02 04
0214 SUB CHRONIC TOX (ANIMAL)	01 02 04	0219 METABOLISM (ANIMAL)	01 02 04
0215 CHRONIC TOX (ANIMAL)	01 02 04	0220 METABOLISM (HUMAN)	01 02 04
		0221	
		0222	
		0223	
		0224	
		0225	
		0226	
		0227	
		0228	
		0229	
		0230	

USE

R: Pesticide

TOXICOLOGICAL COMMENTS

LOW

SPECIES

RAT

CHRONIC REVIEW

YES (PROPOSED)

NON-CHRONIC REVIEW

YES

NO

NO (CONTING)

CAS SR

Acute Oral Toxicity

1-230013

12604A

H

Acute oral toxicity is of high concern based on a calculated LD<sub>50</sub> of 30.8 mg/kg in rats. Mortality and corresponding doses (mg/kg) were 0/5 (12.5), 3/5 (25, 50) and 5/5 (100). Clinical signs included trembling, twitching and hypersensitivity.